

# Phosphorocyanidic diamide, tetramethyl-

**Other names:** Phosphoric acid, nitrile-, N,N,N',N'-tetramethyldiamide  
N,N,N',N'-Tetramethylphosphorodiamidic cyanide  
bis-(N,N-Dimethyl)phosphoramidocyanidate  
Tetramethylphosphorodiamidic cyanide

**Inchi:** InChI=1S/C5H12N3OP/c1-7(2)10(9,5-6)8(3)4/h1-4H3

**InchiKey:** JNTCYEJCTUGHJO-UHFFFAOYSA-N

**Formula:** C5H12N3OP

**SMILES:** CN(C)P(=O)(C#N)N(C)C

**Mol. weight [g/mol]:** 161.14

**CAS:** 14445-60-4

## Physical Properties

Property code	Value	Unit	Source
log10ws	-1.69		Crippen Method
logp	0.784		Crippen Method
mcvol	128.980	ml/mol	McGowan Method
rinpol	1180.00		NIST Webbook
rinpol	1245.70		NIST Webbook
rinpol	1179.50		NIST Webbook
rinpol	1245.70		NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C14445604&Units=SI>

## Legend

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinpol:** Non-polar retention indices

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